

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 5000000.00

Name of Work: Detailed Estimate for the work of Construction of CC roads and drains at Allalasandra in ward no-04.

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).	Cum.							
	levelling and lowering		1	100.00	6.00	0.20	120.00		
	Desilting of existing drain		2	100.00	0.60	0.60	72.00		
			1	110.00	0.45	0.60	29.70		
			1	50.00	1.80	0.60	54.00		
							275.70	86.92	23964.00
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	86.92							
2	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)	cum							
	for RCC drain		1	150.00	1.50	1.00	225.00		
	for culvert		2	6.00	1.50	1.00	18.00		
							243.00	200.34	48683.00
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	4438.22							
6	KSRB 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (Page No.113/Item No. 15.1)	Sqm							
			2	50.00		1.50	150.00		
							150.00	102.82	15423.00
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	102.82							
7	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc.completeexcluding cost of steel as per MORTH specification No.1500,1700,2200 (Page No 17., I.No.4.46.2 of KPWD S.R 2016-17).								
		Cum							
	for RCC drain		1	150.00	1.30	0.20	39.00		
			2	150.00	0.20	0.90	54.00		
	for culvert		2	6.00	1.20	0.23	3.31		
			4	6.00	0.23	0.90	4.97		
	coping for SSM		2	50.00	0.60	0.15	9.00		
	RCC covering		1	50.00	3.00	0.23	34.50		
							144.78	11032.48	1597282.00
	Basic Rate	10408.00							
	Area Weightage @ 6%	624.48							
	Total	11032.48							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Quintal							
	for rcc drain 70 kg/cum		0.700	110.28			77.20		
	for SSM 90 kg/cum		0.900	34.50			31.05		
				144.78			108.25	7067.50	765029.00
	Basic Rate	7067.50							
9	RCC Precast covering slab for drain (10cm thick)	sqm							
			1	147.00	1.20		176.40		
							176.40	2100.00	370440.00
	Rate Approved by BBMP	2100.00							
10	Providing precast slab of 250 mm thick including cost of all materials, labour, curing, transportation, loading, unloading, etc., complete as per the direction of engineer in charge-	sqm							
		2x10	20	1.50	0.60		18.00		
							18.00	5111.00	91998.00
	Data Rate	5111.00							
11	KSRRB M300-53: construction of embankment with approved material gravel/murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 156/ Item No. 19.60/ PWD SR 2016-17	cum							
			1	100.00	6.00	0.20	120.00		
							120.00	320.12	38414.40
	Basic Rate	302.00							
	Area Weightage @ 6%	18.12							
	Total	320.12							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).	cum							
			1	200.00	3.00	0.15	90.00		
							90.00	1665.26	149873.00
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	1665.26							
13	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,). spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum), , No. 174/ Item No. 22.6.1 SR 2016-17								
		Cum							
	for cc road		1	200.00	3.00	0.15	90.00		
	for existing cc road		1	50.00	3.50	0.15	26.25		
			1	81.00	2.50	0.15	30.38		
							146.63	6217.96	911708.00
	Basic Rate	5866.00							
	Area Weightage @ 6%	351.96							
	Total	6217.96							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. Page No 177 Item No 22.7 SR 2016-17	Sqm							
			1	200.00	3.00		600.00		
			1	50.00	3.50		175.00		
			1	81.00	2.50		202.50		
							977.50	95.40	93254.00
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	95.40							
15	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement Item no 22.8.1 Page No 178 SR 2016-17	Rmt							
	for cc road		65	3.00			195.00		
			16	3.00			48.00		
			26	3.00			78.00		
							321.00	121.90	39130.00
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	121.90							
16	Miscellaneous charges								877.60
								Total	5000000.00

(Rupees Fifty lakhs Only)

CERTIFICATE

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per C.S.R. of 2016-17
- 3 The provisions were made in this estimate are necessary and adequate.

Ramangeenah
Assistant Engineer

[Signature]
Assistant Executive Engineer
Project Division
Bangalore-64

[Signature]
Executive Engineer
Project Division
Yelahanka Zone Bangalore-64

Administrative Approval

Accorded For *Rs. 50.00 lakhs*
Head of A/C *P-1878*
GER NO *54/17-18* Dt *09/10/2017*

[Signature]
E.E. (Project) *9/10/17*

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Technical Sanction
Accorded For *Rs. 50.00 lakhs*
Head of A/C *P-1878*
GER NO *237* Dt *10/10/17*

[Signature]
[TA] [CE (YNK)]